

A Timeless  
Case History  
Publication

# Timeless On Location™



## Challenging Installation Creates New Solution

- ◆ Self-supporting concrete and metal stairway presents a problem to overcome.
- ◆ Installing a newel post midway within a angled or stairway application.
- ◆ Timeless product composition is a winner for this heavy traffic area.
- ◆ The versatility of baluster sizes, makes the Cambridge Collection an ideal solution.
- ◆ Timeless Architectural Specialist stays with the project through to completion.

For a totally different vacation experience, visit a Wonderworks™ near you. Learn what it's like to experience a hurricane or earthquake, play uber laser tag, climb a mountain or experience what zero gravity in space feels like. You know you are in the right place when you see an upside down tilted building! Construction of this amazing structure is challenging to say the least.

Denark Construction took up this challenge to build the newest Wonderworks facility in Pigeon Forge, Tennessee. The design team at Denark discovered Timeless balustrades and knew they wanted to use the product on the stairway in the building's main foyer. The issue they faced was whether or not the Timeless balustrade system could be installed

on a self-supporting concrete and metal staircase. The products ultimately specified had to meet stringent commercial building codes for height, plus be of a durable material that would take the beating of hundreds of daily visitors. Timeless fit the bill perfectly.

The Cambridge commercial baluster system was chosen for not only its versatility but for its appearance and durability. "Denark was impressed by the fact that all our balustrade systems are backed by a lifetime limited warranty", notes Parker Stodghill Architectural Product Specialist for Timeless, "The plus factors for Denark selecting us were the appearance of the system and the fact that we were willing to provide technical support through all the installation challenges with



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The biggest hurdle was overcoming how to install the system on a self-supporting metal and concrete stairway. The side flanges of the stairway where the railing system had to be installed was a mere three inches, the width of the Cambridge baluster bottom railing is 8-5/8". Knowing that the railing system must be able to withstand constant use, the structural and security issue of the system was the most important factor. "What Denark ended up engineering was a metal plate bolted to the flange, extending the baluster platform so that the bottom railing was supported", adds Parker. "We also had to deal with the mechanics of inserting a post in the middle of an angled run. That may not seem like a big issue, but it becomes interesting when you consider where the railings meet the post".

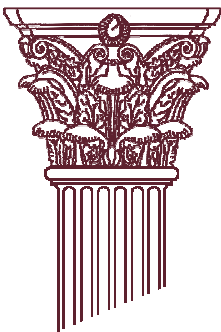


*Detailed in the photos shown, is the railing above the post attached to the post cap, while the railing below the post is connected just below the cap.*



*Left:  
Adding  
another  
element of  
challenge is  
the slight  
radius at  
the  
bottom  
of the  
stair run.*

The result was a somewhat custom newel post being manufactured for the project. "We used our ten inch post and added twelve inches to the base for the two middle posts", explains Parker. "It may not seem like a complex issue, but we needed to understand the installation design and overcome where the railings attach to the post, the post heights and how the stairway run integrated with the straight run. Truly this is where Timeless stands above our competition. Months after the sale, we stayed with Denark to ensure that the installation went off without a hitch. We did have to make some on the spot adjustments, but that always happens in difficult installations". To add to the complexity of the installation the bottom of the stair run included a slight radius rail. "A radius installation is always more difficult", adds Parker. "In this case it just added one more layer to the installation challenge, one that I know we met with overwhelming success".



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